Patrick G Campbell

List of Publications by Year
in descending order

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30 papers	2,292 citations	394421 19 h-index	434195 31 g-index
34 all docs	34 docs citations	34 times ranked	2219 citing authors

#	Article	IF	Citations
1	3D-printed nanoporous ceramics: Tunable feedstock for direct ink write and projection microstereolithography. Materials and Design, 2021, 198, 109337.	7.0	20
2	Unraveling the Ion Adsorption Kinetics in Microporous Carbon Electrodes: A Multiscale Quantum-Continuum Simulation and Experimental Approach. ACS Applied Materials & Interfaces, 2021, 13, 23567-23574.	8.0	4
3	Energy transfer for storage or recovery in capacitive deionization using a DC-DC converter. Journal of Power Sources, 2020, 448, 227409.	7.8	16
4	Selectivity of nitrate and chloride ions in microporous carbons: the role of anisotropic hydration and applied potentials. Nanoscale, 2020, 12, 20292-20299.	5.6	11
5	Cation Selectivity in Capacitive Deionization: Elucidating the Role of Pore Size, Electrode Potential, and Ion Dehydration. ACS Applied Materials & Interfaces, 2020, 12, 42644-42652.	8.0	40
6	Understanding resistances in capacitive deionization devices. Environmental Science: Water Research and Technology, 2020, 6, 1842-1854.	2.4	5
7	Structural Anomalies and Electronic Properties of an Ionic Liquid under Nanoscale Confinement. Journal of Physical Chemistry Letters, 2020, 11, 6150-6155.	4.6	5
8	Integration of Fullerenes as Electron Acceptors in 3D Graphene Networks: Enhanced Charge Transfer and Stability through Molecular Design. ACS Applied Materials & Interfaces, 2019, 11, 28818-28822.	8.0	12
9	Specific ion effects at graphitic interfaces. Nature Communications, 2019, 10, 4858.	12.8	62
10	Using Ultramicroporous Carbon for the Selective Removal of Nitrate with Capacitive Deionization. Environmental Science & Technology, 2019, 53, 10863-10870.	10.0	118
11	Comments on â€œComparison of energy consumption in desalination by capacitive deionization and reverse osmosisâ€• Desalination, 2019, 461, 30-36.	8.2	37
12	Performance metrics for the objective assessment of capacitive deionization systems. Water Research, 2019, 152, 126-137.	11.3	201
13	Charging and Transport Dynamics of a Flow-Through Electrode Capacitive Deionization System. Journal of Physical Chemistry B, 2018, 122, 240-249.	2.6	36
14	Quantifying the flow efficiency in constant-current capacitive deionization. Water Research, 2018, 129, 327-336.	11.3	66
15	Origins and Implications of Interfacial Capacitance Enhancements in C₆₀-Modified Graphene Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 36860-36865.	8.0	23
16	Surpassing the conventional limitations of CO2 separation membranes with hydroxide/ceramic dual-phase membranes. Journal of Membrane Science, 2018, 567, 191-198.	8.2	22
17	Synthesis and Characterization of 1,2â€Azaborineâ€Containing Phosphine Ligands: A Comparative Electronic Structure Analysis. European Journal of Inorganic Chemistry, 2017, 2017, 2207-2210.	2.0	23
18	Energy consumption analysis of constant voltage and constant current operations in capacitive deionization. Desalination, 2016, 400, 18-24.	8.2	123

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19	Solvent-directed sol-gel assembly of 3-dimensional graphene-tented metal oxides and strong synergistic disparities in lithium storage. Journal of Materials Chemistry A, 2016, 4, 4032-4043.	10.3	19
20	Universal roles of hydrogen in electrochemical performance of graphene: high rate capacity and atomistic origins. Scientific Reports, 2015, 5, 16190.	3.3	15
21	Synthesis and Functionalization of 3D Nano-graphene Materials: Graphene Aerogels and Graphene Macro Assemblies. Journal of Visualized Experiments, 2015, , e53235.	0.3	3
22	ROMP crosslinkers for the preparation of aliphatic aerogels. Journal of Non-Crystalline Solids, 2015, 408, 98-101.	3.1	12
23	B-Methyl Amine Borane Derivatives: Synthesis, Characterization, and Hydrogen Release. Australian Journal of Chemistry, 2014, 67, 521.	0.9	14
24	Optimizing supercapacitor electrode density: achieving the energy of organic electrolytes with the power of aqueous electrolytes. RSC Advances, 2014, 4, 42942-42946.	3.6	26
25	Battery/supercapacitor hybrid via non-covalent functionalization of graphene macro-assemblies. Journal of Materials Chemistry A, 2014, 2, 17764-17770.	10.3	59
26	Recent Advances in Azaborine Chemistry. Angewandte Chemie - International Edition, 2012, 51, 6074-6092.	13.8	654
27	Back Cover: Recent Advances in Azaborine Chemistry (Angew. Chem. Int. Ed. 25/2012). Angewandte Chemie - International Edition, 2012, 51, 6280-6280.	13.8	1
28	A Single-Component Liquid-Phase Hydrogen Storage Material. Journal of the American Chemical Society, 2011, 133, 19326-19329.	13.7	203
29	Hydrogen Storage by Boronâ^'Nitrogen Heterocycles: A Simple Route for Spent Fuel Regeneration. Journal of the American Chemical Society, 2010, 132, 3289-3291.	13.7	152
30	Resonance Stabilization Energy of 1,2-Azaborines: A Quantitative Experimental Study by Reaction Calorimetry. Journal of the American Chemical Society, 2010, 132, 18048-18050.	13.7	85